

QUA·RAE

HERE IS NEWS OF....THE RADIO ASSOCIATION OF ERIE, INC.

VOLUME 5

NUMBER 4

April, 1974

Editor: Bud Hopkins, WA3TRJ
Typist: Janice S.

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C.R.Jury, WN3UCX
T.C.R.C.

The Link
L.B. Weiner, W3LOS
Brownie, K3QAY

C. Manross, WA3KAI
R.Bair, WA3HDK
B. Hopkins, WA3TRJ

ERIE'S FINEST AMATEUR RADIO NEWSBULLETIN BY FAR !

RADIO ASS'N OF ERIE, INC.
P.O. Box 844
ERIE, PA. 16512

NON-PROFIT ORG.
U.S. POSTAGE
- PAID -
ERIE, PA.
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THIRD CLASS

CHUCK BLILEY, K3NAU
965 ARLINGTON ROAD
ERIE, PA. 16509

The Radio Ass'n. of Erie Inc. Serving area "Hams" for over 27 years.

The fourth regular meeting of the Radio Association of Erie Inc., was held at the Red Cross Building, 150 W. Sixth Street., on the 4th, at 8:15 P.M. EDST with Vice President WA3PZQ residing.

The Treasurer's Report showed a present balance of \$437.76.

The minutes of the last meeting were read and approved.

CORRESPONDENCE:

- 1) Carter-Raegan Duplicate Insurance Policy received.
- 2) Check from W3QN for dues. Also from James Mullen, WA3UTN, and WA3KAI for dues.
- 3) Notice from Internal Revenue Service to report present standing.
- 4) Addressograph-Multigraph Corp., bill for \$6.75.
- 5) C.D. Party Report from ARRL.
- 6) Waterford Electric bill \$21.33.

COMMITTEES:

QUA-RAE - WA3TRJ reported that there are 207 copies of the QUA-RAE ready for mailing. This is to go out next week. He also reported that the press has undergone repairs at no extra expense for the work. There maybe a cost of \$60 for rolls but nothing else. There was a motion by K3QAY that a former debt for purchase be paid to WA3HDK, but it was found that this motion had formerly been passed upon and that all that was needed was to pay the bill. This was ordered paid.

ACTIVITIES - WA3PZQ reported that the Activities Meeting for April has been changed to the fourth Thursday for this month only as there was difficulty in getting the speaker for the regular night. This was discussed in the light of conflict with Board Meetings and also that it is not good policy from the standpoint of confusing the membership as to when and where the meeting will be held. It was decided that the best policy is K3NAU and WA3HDK advised that the Board Meeting can be re-scheduled for this time, but that it should not be necessary in the future.

HAMFEST - WA3HSR absent at this time.

AUCTION - K3NAU reported that the Board has recommended that the Auction should be held in late summer. WA3HDK advised that there are flyers, aprons, etc., available when they are needed.

PROPERTY - WA3HDK discussed the fact that there is a second typewriter and inquired about where they are both located. Bob reported that he has one and the L Secretary reported that he has the other one.

FIELD DAY - WA3EAY reported that the young lady advised him that reservations for Zuck Park are taken on a first come, first serve basis. It will be necessary for some arrangements by the committee whereby this can be worked out to hold the space till it is needed. There were questions about the bands to be used and the action previously taken was discussed. WA3TRJ made a motion that the action not be restricted to two bands. WA3UTN seconded it and it was passed.

Con't on page 3

minutes con't. from page 2

BOARD MEETING:

K3NAU reported that the present Insurance coverage is only Liability Insurance and that the committee is presently considering the necessary action to be taken and that it will be presented to the next Board Meeting and then be reported back to the Club.

OLD BUSINESS:

REPEATER COMMITTEE: K3ATZ reported that the repeater has been off the air and that a group are planning to go to the site on Sunday Morning to work. K3NAU informed that Repeater Meetings are to be held at the homes on a trial basis and that refreshments will be served.

NEW BUSINESS:

W3KPM made the motion to pay all bills. This was carried. K3NAU reported a Board discussion on an Electronic Project on a User time-out timer for repeater users. It was felt that this could be used to help the Repeater Committee and could be underwritten by the Club to the advantage of both. There was a lively discussion on this matter but it was finally decided not to go along with it. Motion was made by K3QAY that the Club donate \$25 to the Repeater Committee.

At 10:15 P.M. W3KPM made the motion that we adjourn. Carried.

Present: 3 Board Members, 4 Officers, and 9 Others.

C.R. Jury, WN3UCX
Secretary

NICKEL-CADMIUM BATTERIES IN AMATEUR RADIO SERVICE

Despite the current popularity of nickel-cadmium batteries, or nicads, in portable and emergency equipment, little information about their capabilities and proper use has appeared in the amateur literature. We recently obtained a copy of an excellent reference work on nicads, the GE Nickel-Cadmium Battery Application Engineering Handbook (GEI-3148, available from General Electric Company, Battery Products Section, P.O. Box 861, Gainesville, Fl. 32601). Here we present a brief summary of the most important information on nicads in amateur service; a longer article is being planned.

The most common type of nicad battery in amateur radio service consists of ten sealed cells connected in series to form a 450 mah AA cells are usually used, and 4 ah D cells are popular for more powerful pack-set transceiver assemblies. The capacity of a cell is defined as the constant current that it can be expected to deliver for one hour; it is measured in Ampere-hours. The rated-capacity current rate is referred to as the "C" rate.

Con't. on page 4

Nickel-Cadmium Batteries (Con't)

Sealed cell nicads are usually charged at a "normal" rate of 0.1C for 16 hours or more. Charged batteries which must be kept ready for service during periods of storage are trickle charged at from 0.01C to 0.03C. Sealed cells are generally capable of being overcharged at 0.1C for an indefinitely long time without suffering damage or serious loss of performance. During overcharge oxygen is produced on the positive electrode and recombined on the negative; overcharging at more than 0.1C causes internal pressure and cell temperature to rise rapidly, leading to venting of the cell. Charging at less than 0.1C will not produce a full charge.

Nicads can be discharged at very high rates provided that cell temperature does not rise too high. However, between ten and twenty-five percent more energy may be obtained at low discharge rates. Multi-cell batteries should not be series discharged too deeply; some cells will be exhausted before others, and the exhausted cells will be reverse charged by the remaining cells. Reverse charging leads to venting and to reduced capacity if experienced too often.

Cell failure is defined as an actual cell capacity of less than half of the rated capacity. Permanent failures include internal shorts, which are hastened by high operating and storage temperatures and by storage at low charge levels, and loss of cell electrolyte, which is caused by excessive venting. Reversible failures generally involve "memory" effects: After a long overcharge or after repeated shallow discharge to the same point, the cell voltage drops more rapidly than usual. Reversible failures may be corrected by discharging each cell independently at a low rate until exhaustion, and then recharging at 0.1C for twenty hours; one or two cycles should recondition the cells.

A simple charger for a twelve-volt nicad battery consists of a 24-volt transformer, a silicon diode, and a current limiting resistor connected in series with the battery. Use R-12 ohms for 1-400 ma, R-100 ohms for 1-45ma, and R-680 ohms for 1-7ma. Complete design information for chargers will be found in the GE text, and may be obtained for specific cases from this writer upon request.

Reprint T.C.R.C.

A CLOCK
SYRACUSE ROTARY PRESS

A clock is something that they have in an office so you can tell how late you wish you weren't in the morning; what time you go out for lunch and coffee breaks before, and come back after; and how long before you can start stopping work by stalling until.

Reprint T.C.R.C.

REPEATER ETIQUETTE

Note: The following information is a compilation of ideas published in other club bulletins. These are by no means hard and fast rules as adopted by the club (although perhaps some of them should be), but most of

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Repeater Etiquette (Con't)

them are plain common sense. It is suggested that you try to follow these points as much as possible; and the club may want to consider adopting them as regular rules of operation at a later date.

A repeater is intended to serve stations that cannot communicate on simplex channels and to provide a calling frequency for all stations. If the traffic load on the repeater becomes so heavy that many of those monitoring have to turn it off, the system's main purpose is defeated, and it becomes little more than an expensive, complicated toy. Courtesy and a genuine effort on every operator's behalf will improve operation for all.

REPEATER DO'S

1. Use the repeater as much as you wish. Your dues are in support of our activities and it is there to be used.
2. Listen before transmitting. See if the repeater is in use. If it's busy, determine who is in conversation before transmitting, and always consider whether interruption is appropriate.
3. Identify whenever you key the repeater, even you just want to hear the squelch tail. Identify to stay legal and to let others know who tripped it.
4. Let the repeater's output carrier drop before you transmit. This gives breakers a chance to get in.
5. Keep transmissions short and identification to a minimum. Remember, he who times it out buys doughnuts.
6. Immediately acknowledge breakers.
7. When you are a breaker, give your call.
8. Establish contact on the repeater and then switch to simplex, if conditions permit, for any lengthy contact.
9. Always identify your station. Tests on the repeater are permissible, but the station that is testing must identify itself.
10. Think before you transmit. A little thought ahead of time will make you sound more professional.
11. Keep it clean. Hidden meanings or double meaning remarks may fall on non-amateur ears and may not be considered funny.
12. Request assistance when testing. Seek out quality reports, if you are working on your equipment.
13. If asked to assist someone else in testing, give accurate reports. When they are barely readable, they have to be more than a "little bit noisy" or more than "a little distorted." Call a spade a spade.
14. Make visitors and newcomers feel at home. Go out of your way to help the visitor find his way and extend our friendliness. The newcomer, with your help, will soon be an oldtimer.
15. Stand by during an emergency unless you are specifically called or have priority traffic or information.

REPEATER DON'TS

1. Don't monopolize the repeater. Monitoring stations will soon become tired of listening to you.

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Repeater Etiquette (Con't)

- 2. Don't use the repeater for any business purpose, whatsoever.
- 3. Don't key-up the repeater unless you intend to identify your station. Besides being unlawful, unidentified key-ups irritate the control operator and all stations monitoring the frequency.
- 4. Don't break unless you have good reason. Emergency traffic, club priority traffic, personal traffic with a shortage of time, to offer information, and to join the QSO should be the order of priority.
- 5. Don't make frequent unnecessary calls. Two calls are sufficient in a 5 minute period to contact a specific station.
- 6. Don't continue in QSO when you're poor copy. Get the important traffic through, but then knock it off. If we want to struggle for each word, we can switch to the DC bands.
- 7. Don't leave your transmitter unattended and accessible to unlicensed persons who can merely turn on a switch or depress a mike button to activate your station. Mobile rigs must also be protected by locking your car.
- 8. Don't use the repeater to work base station to base station if the stations can communicate on a simplex channel.

Remember that the repeater is being monitored at all times by a control operator, who is donating his time to make the repeater available for your use. Your consideration for the control operator can best be observed by following the procedures above. This will help the control operator meet his obligation to the trustee and the FCC.....and it will improve operation and communications for every station using or monitoring the repeater.

Reprint T.C.R.C.

C.A.R.S.. ELECTION 1974-1975

- President - JIM CIHON, K3TLP, 147 Glenwood Avenue, Meadville, Pa.
- Vice-President - ROGER GALBRAITH, WA3TCO, RD 2 Guys Mills, Pa.
- Secretary/Treasurer - DICK MORVAY, WA3PRJ, RD 5 Meadville, Pa.
- Directors - RON KOCHER, WB4ZDY/3, Lot 38 Do-Ral Estates, RD 3 Conneaut Lake, Pa.
- MIKE CAPUTO, K3YAK, RD 3 Meadville, Pa.

C.A.R.S.

MEADVILLE WR3ABN CHARTER SUPPORTERS

WA3FBQ, K3HWL, WA3MPV, K3TLP, K3YAK, WA3TCO, W3VXV

This is just a beginning, more next month.

C.A.R.S.

THE C.A.R.S. IN MARCH

K3YAK opened the meeting at 7:35 p.m. from the meeting room in the Civil Defense Office, Crawford County Court House, Meadville, Pa.

Minutes of the February 12th meeting were approved as read. The Treasurers report showed \$205.87 in the checking account.

Welcome of visitors: Mark Sterling, Ray Jones, and Chuck Griggs. New member: Ron Kocher WB4ZDY/3. K3YAK read a letter which he sent out to area hams. K3YAK also announced that he and K3HWL would soon make a trip to Oil City, Pa. to speak to the Venango County Radio Club. Contest announced: QSL Cards for the repeater.....prizes to be awarded. Nominations for Secretary/Treasurer: WA3PRJ was nominated by K3YAK, second by K3TLP. Nominations closed by W3VXV and K3GDV. WA3PRJ elected. Nominations for V.P.: A3TCO was nominated by K3TLP, second by WA3PRJ. WA3SKG and WA3FBQ closed nomination and WA3TCO elected. Nomination for President: K3TLP was nominated by K3YAK, second WA3TCO. WA3FBQ and K3GDV closed nomination. K3TLP elected. Nominations for Directors: WB4ZDY/3 nominated by K3YAK; second WA3SKG. K3YAK was nominated by WA3SKG, second WA3FBQ. Nominations for Director closed by K3TLP, and WA3PRJ. WB4ZDY/3 and K3YAK elected. Election complete. K3YAK suggested that if the Erie group decides to have an auction we may help them.

Report from K3HWL on the Akron repeater. K3HWL has FCC Form 610 for club members who must renew. Fee increase May 1, 1974. K3YAK discussion on possible repeater link with WR3ABY, Erie, Pa. WA3TCO mentioned the Jamestown, N.Y. group would like to discuss link. It will be arranged by A3TCO.

Meeting adjourned 8:55 P.M.

Discussion on Selected Interval Logic Tracer was presented by WA3TCO after business meeting.

C.A.R.S.

LICENSING CHANGES ?

We have noticed an ever increasing amount of small comments; notes on the napkin, tie, and parts container, which tell us of impending changes in amateur licensing. We're not sure what is going on but it looks very interesting. Part of the noteworthy collection may be found in the latest collections of QST, CQ, 73, etc. You kinda have to read between the funny print but you will find it a pleasant way to spend an evening.

First off...amateur radio in part will be code free. Kinda a beginner class with operating privy in the U.H.F. of V.H.F. regions, probably starting around, say, 220 mhz. Next, the Tech's will be authorized to operate C.W. on the Novice bands....maybe some phone in the ten meter area. The General Class code speed requirement will be lowered to TEN words per minute, this should help some of the boys, eh? Here is the way the FCC, B, Hams, EIA, other uninterested people have tried to compromise the latest licensing club. (Communicator) - No Code, Novice Theory, Privy limited to phone above 220 mhz. (Novice) - Code 5 W.P.M., Novice Theory, req's., no change. (General & Conditional) - Code 10 W.P.M. General

Con't on next page

licensing Changes ? (Con't)

theory, no change in the General freq's. (Advanced) - Code at 10 W.P.M., Advance Theory, same class privileges, (Amateur Extra-Phone) Code at 10 P.M.. Extra Theory, All phone privileges, General/Advance C.W. privileges. (Amateur Extra-C.W.) - Code at 20 WP.M. and all amateur privileges. Atch, the Novice license will be a nonrenewable, but still two years in life.

We can't be sure when the F.C.C. will shake and re-water the liberty tree but our past experience tells us that they act in different ways. May we offer them a comment or two before the Proposed Rulemaking...our comments may be as good as anyone's.

C.A.R.S.

AMSTAT-OSCAR 7 PLANS

The launch will be late spring with the final ok from NASA. Australia, Canada, Germany, and the US.A. have developed the latest satellite. Get prepared for a new addition. FCC FORM 610 IS THE ONE YOU'LL NEED TO RENEW YOUR LICENSE....need one, contact K3HWL.

C.A.R.S.

LICENSE FEE INCREASE

You bet your blown transistor its a fact, the fee has gone up 100 pennies effective May 1, 1974. You can renew 90 days before your present license expires, so take a good look at the date maybe you can save yourself a buck.

C.A.R.S.

NOW YOU KNOW

If you're wondering why your "Japtrac" is giving so many receive intermod problems in downtown Buffalo, here's one possible explanation from Tom, WA2EYF. It seems that WBNY broadcasts at 96.1 mhz and WADV is at 106.5. The difference between these two is 10.4 mhz! This is close enough to the 10.7 IF'S of a lot of the cheaper rigs that there are severe overload problems. The best way of effecting a cure might be to put in a WBNY filter, as this is the stronger of the two stations. Thanks, Tom.

THE LINK

HELLO DOTTIE WHEREVER YOU ARE!!

THE CONTRIBUTIONS OF EDSSEL MURPHY TO THE UNDERSTANDING OF THE BEHAVIOR OF INANIMATE OBJECTS

Readers may be familiar with an oft quoted basic principle called Murphy's Law. This states that "If anything can go wrong, it will."

Some time ago, samples of the application of this principle were printed in EDN/EEE, an electronics publication intended for design engineers. For your enjoyment, some of these are reprinted here.

NEERAL ENGINEERING

Dimensions will always be expressed in the least usable term. Velocity, for example, will be expressed in furlongs-per-fortnight.

An important Instruction Manual or Operating Manual will have been discarded by the Receiving Department.

ROTOTYPING AND PRODUCTION

Any wire cut to length will be too short.

Tolerances will accumulate unidirectionally toward minimum difficulty of assembly.

Identical units tested under identical conditions will not be identical in the field.

The availability of a component is inversely proportional to the need for the component.

If a project requires n components, there will be $n-1$ units in stock.

If a particular resistance is needed, that value will not be available. Further, it cannot be developed with any available series or parallel combination.

A dropped tool will land where it can do the most damage. (Also known as the law of selective gravitation.)

The probability of a dimension being omitted from a plan or drawing is proportional to its importance.

Interchangeable parts won't.

Probability of failure of a component, assembly, subsystem or system is inversely proportional to ease of repair or replacement.

If a prototype functions perfectly, subsequent production units will malfunction.

Components that must not and cannot be assembled improperly will be.

Graphic recorders will deposit more ink on humans than on paper.

An instantaneous power supply crowbar circuit will operate too late.

A transistor protected by a fast-acting fuse will protect the fuse by blowing first.

If an obviously defective component is replaced in an instrument with an intermittent fault, the fault will reappear after the instrument is returned to service.

After the last of 16 mounting screws has been removed from an access cover, it will be discovered that the wrong access cover has been removed.

After an access cover has been secured by 16 hold-down screws, it will be discovered that the gasket has been omitted.

After an instrument has been fully assembled, extra components will be found on the bench.

THE LINK

WPA CW TRAFFIC NET ACTIVITY FOR MARCH 1974

31 sessions 391 QNI 377 messages

WA3SWF	29	W2DSS	12	K8KMQ	3	NCS:	
W3LOS	28	WA3RVJ	11	W9MUC	3	Sun.....	K3CB
W3VQV	28	WA3TMR	11	W3ARC	2	Mon.....	W3LOS
W2KAT/3	25	WA3PXA	10	W3HDH	2	Tues.....	WA3SWF
W3HCT	23	W3KNK	9	WA3NAZ	2	Wed.....	WA3TTS
WA3TTS	23	K3SJN	9	W3QN	2	Thurs.....	W3KUN
W3IDO	21	WA3SZX	9	WA3RIZ	2	Fri.....	W3NEM
W3CR	19	W3UT/3	8	W3SIJ	2	Sat.....	W2KAT/3
W3KUN	19	W3SN	7	W3EML	1		
W3OFN	18	W3NEM	5	WA2QNT	1		
W3RUL	18	W3OEO	5	WA3QQR	1		
W3CB	15	W3ATQ	4	OTHERS	4		

3RN Reps:	24
WA3SWF.....	24
W2KAT/3.....	16
WA3TTS.....	7
WA3PXA.....	6
W3LOS.....	3
W3NEM.....	2
W3UT/3.....	2
K3CB.....	1
W3KUN.....	1

A Quick Glance at the above figures shows that WPA is really humming. Every QNI, every message handled, every trip to 3RN helps to keep it that way. Thanks to all of you for making March a really good month.

Pete WA3QQR Plans to transmit ARRL Official Bulletins at frequent intervals on 3585 khz. just prior to WPA net time. This should be a very welcome service to net members. Just tune to the WPA frequency shortly before net time to find out what's happening in ham traffic.

Along with this bulletin we are enclosing page 7 of WPA's "Getting-to-Know-You" Program, which features WA3TMR and WA3TTS as its newest additions. Both of these youngsters are relative newcomers who have earned recognition because of their frequent check-ins and substantial contributions to the net. Congratulations to both!

Hank K3CB Has Written an article covering not only the basics, but also some fine points on traffic handling, which he has learned thru his varied experience at all levels of the National Traffic System. There is something for all of us to learn from the article, not only beginners, but old timers as well. I urge all of you to read (and even study) it. We are mailing three pages of it with this month's bulletin (the most we can send for one stamp). The remaining three pages will be included with next month's bulletin. We are grateful to you, Hank, for sharing with us.

L. B. Weiner, W3LOS

WPA'S "GETTING-TO-KNOW-YOU" -- JUNE 1973

K3ZNP (ex WA4ISW), GEORGE E. G. MARKIS, graduated from high school in 1950 and from the University of Pittsburgh, with an A.B. degree Cum Laude, in 1954. He is now taking graduate courses at Pitt towards a Master of Arts degree in Teaching. First licensed in July 1962. Now Advance Class, PAM and net manager of the recently reactivated Western Pa. Phone Net (WPP). First checked into WPA on October 3, 1968. George and his wife, Mary, have one daughter, Annie, aged 16. He is employed as a Spanish teacher at the Hopewell Township High School. Member, University of Pittsburgh ARC and Beaver Valley Amateur Radio Assn. (BVARA), of which he is past president. Member ARRL since 1963. Experience other than ham radio includes tactical communications while in the Army. George also enjoys stamp collecting. Mailing address: 2442 Mill St., Aliquippa, Pa. 15001, Phone (412) 375-5666.

APRIL 1974

WA3TMR, (ex WN3LLX), STEVEN S. LYMPANY, is a senior in high school, planning to attend Virginia Polytechnic Institute next fall. First licensed in 1968. General Class. First checked into WPA on April 23, 1973. Member ARRL for two and a half years. President of the Franklin Regional High School Radio and Electronics Club. NCS of KSSN on Wednesdays. Besides ham radio, Steve likes to play folk guitar and banjo, to sing and to play lots of tennis. He took his novice test from Frank WA3IPU. W3QJJ of Cleveland, Ohio is his grandfather. Steve is active in the Honor Society, is vice president of the Student Council and runs the quarter mile on the track team. Mailing address: 9 Buena Vista Dr., Delmont, Pa. 15626, phone (412) 327-6317.

WA3TTS, MICHAEL K. SAPP, is currently attending high school and planning to attend Penn State after graduating. First licensed on October 31, 1972. General Class. First checked into WPA on September 28, 1973. Member ARRL since March 1971. Besides ham radio, Mike likes playing the guitar, hunting, fishing and canoeing. He is presently designing an Oscar 7 station for satellite communications experiments. Mike says: "I would like to see more hams from WPA QNI KSSN at 2230Z on 3710 (more or less) khz." Mailing address: 343 McAleer Rd., Sewickley, Pa. 15143, phone (412) 364-4163.

L.B. Weiner, W3LOS

FOR SALE - Heath Ham Scan Scope, Model HO-13. Excellent condition.
\$30.00.

Prog. Line 2MFM, XCVR, 12VDC, Dual Band 16/76, 34/94
control Head & Misc. Good condition. \$100.00.

Call: Brownie, K3QAY, 899-4843.

WANTED

Teletype printer to be used for monitoring
the news service at WERG Gannon College F.M.
Stations.

Feb. 27, 1974

Dear Irene,

Once again thanks for your support of the RAE, Irene, enclosed you will find your 1974 renewal card.

d. Hope you enjoy another year of the QUA-RAE.

4701 JI89A

Chuck Manross - WA3KAI

My pleasure Chuck. Somehow I feel that if RAE fails, so will the Ft. Wayne R.C., and we can't let that happen. Can we -
It's always a handful of people who hold the "Non-Repeater" clubs together today. We can't even have a newsletter but I feel in the air that club attendance will improve very soon, Chuck.

"73" Irene

[illegible]

WHO EVER IS THE LUCKY FELLOW THAT GETS THE ALL WHITE QUA-RAE, WILL
ON PRESENTATION OF SAME TO HOPPY, WILL GET ONE FREE DRAKE.

(12)

REPEATER COMMITTEE MEETING

April 11, 1974

Meeting called to order at 2030 by Jim Fitzreiter, K3QHO. Host was K3WOL.

Secretary Bill Tabold, WA3UCR was not present to read the minutes from last month.

K3QHO read a letter of resignation from ^{Chair} ~~president~~ Chuck Lewis, K3ATZ. In the discussion which followed, methods of handling the resignation of K3ATZ and the lack of the secretary's attendance at the meetings were suggested. K3QHO to determine interest of secretary to continue.

K3WTZ moved that "At the next meeting (May 9) we will elect a new president to fill the vacancy caused by the resignation of K3ATZ." Motion carried.

On the call for old business, there was extensive discussion about writing thank-you letters for those who donated towards the purchase of the cavities for the one-site machine. It was noted that an oversight caused delay in posting the letters. K3NAU is to write the letter and WA3TRJ to duplicate them.

K3WTZ presented an additional bill for Phelps-Dodge for shipping charges and state sales tax. He reported that our tax-exempt status excuses us from payment of the sales tax. He also said that it was his understanding that the price quoted was F.O.B. destination. A copy of the quotation was not available at the meeting and K3NAU was to follow up.

After discussion, K3WTZ moved that we pay Jim Fisher \$5 for copying maps and preparing survey papers for changes in the repeater sites.

K3QHO read a letter from K3QAY. Summary of contents:

1. K3QAY has for sale a Prog Line.
2. He cannot copy the signal from the new location.
3. He will not support the repeater until he can again use the repeater.
4. He recommends that the repeater treasury be kept at a minimum? of \$75.
5. The quality of the repeater should be the first order of business.
6. He recommends we eliminate expensive, busy-work projects. ?
7. Questions the Haysite operations.
8. Suggests attention be called to control station's functions.

K3QHO indicated that a letter has been received from Bill Young, Chief Engineer at the Gannon Radio Station, WERG. Bill needs a Model 15 RTTY set.

K3QHO asked for discussion on the new site. While it was noted that signal strength in Erie is considerably reduced, no complaints were voiced.

Con'd on next page

Repeater Minutes Con'd. from page 13

It was felt that the expanded coverage to the south and east were advantageous from the standpoint of recruiting new users. City coverage should be improved by raising our ERP to legal limits. At present only 20 watts (approx) is available at the output of the diplexer. All in attendance agreed that the new system is progressing in the correct direction.

K3WTZ calculated that Erie is approximately 11° below the horizon of the new site and is shaded by approximately 20 db. He also calculated that approximately 120 watts would be necessary to restore city coverage to previous levels. The following three motions were an outcome of the discussion:

K3WTZ offered to buy the 4X150 amplifier and power supply for \$200 for use at Erie Tech. WA3TRJ moved and the motion carried.

K3WTZ moved that K3NAU be permitted to put his amplifier on line at the repeater site and boost power output to 80 watts for the purpose of conducting tests; and that the membership come prepared to act on the purchase of solid state power amplifiers at the next meeting (May 9) Motion carried.

K3NAU moved to purchase Heilax from K3HWL. Estimated length, 110 feet at approximately 18¢ per foot. Motion carried.

K3NAU discussed a time-out timer for use on member's rigs. It was agreed that lead time for such a project would be one or two months--too long to take to Dayton as suggested. Tabled.

K3NAU moved that the repeater name be changed to Tri-State Area Repeater. ~~Defeated.~~ X

K3WTZ questioned the group, "Has lowering membership rate added new members?" Consensus is yes.

WA3TRJ discussed the absence of reliable control at the new site. It was agreed to take care of the technical problems concerned immediately.

K3NAU reminded that the committee must take down the tower recently sold to provide funds for the diplexer. Indication was that the purchaser would wait until the ground becomes solid. It was decided to wait until the ground is firm before beginning removal.

Next month's meeting will be at the QTH of K3NAU on May 9, at 2000. Charlie's address is 965 West Arlington Road. Phone 866-1132.

Those present: K3QHO, K3WOL, WA3EAY, K3WTZ, K3NAU, K3KAP, WA3TRJ, WA3HDK, and Jack Thompson.

Meeting was adjourned at 2230 by K3QHO.

Robert E. Bair, WA3HDK
for the Secretary

EDITOR'S NOTE

1974 Roster

Stand up and be counted:

W3AQY
K3ATZ
K3AXS
W8BKM
WA3EAY
WA9EZP
W8GR
WA3HDK
WA3HJC
W3HLM
WA3HRJ
WA3HSR
K3KAP
WA3KAZ
W3KFH
W5KLV
W3KPE
W3KPM
W3KPJ

K3KSB
W3KUN
W3LKJ
W3LOS
WA3LSY
WA3MKT
K3NAU
K8OHL
W3PJD
W7PJJ
WA3QAY
K3QEQ
K3QHO
W3RLJ
W3SLC
W3SN
W3STK
W3TPW
K3QAY

WA3TRJ
W3TXZ
WN3UCX
WA3UET
WA3USH
W3VHP
K3VRM
K3VXE/7
W3WAX
K3WOL
WA3KAI
K8GAE
WA3TYI
WA3UNX
K3HFL
WA3UTN (Roy)
Baker, Maurice
Gordon, Doug
Stiechick, Nick

W3QJ
WA3VXZ
WA3UTN
WA3MAI

Pse check to see if your call is among those listed. If we have missed you, then perhaps, just perhaps, you have over looked us.

The Editor, WA3TRJ

CONGRATULATIONS WA3WGZ (Alice Bomboy)

ARRL BULLETIN, NR 476, April 18, 1974 - On April 10 FCC issued a public notice stating quote the commission at this time cannot allow communications between its licensees and any station or stations situated in or over the territory of the People's Republic of China end quote. Article 41 of the International regulations is cited as the basis. Although the situation is complex, there has been concern in Washington that independent unauthorized operation might jeopardize future chances for the support of the amateur service by the People's Republic of China.

PROPAGATION FORECAST BULLETIN, NR 196, April 19, 1974 - The latest forecast predicts unsettled conditions with active geomagnetic conditions and with moderate solar activity. Maximum usable frequencies are likely to be below seasonal normals. Solar activity indicates for April, May and June are 26, 26 and 25 respectively.

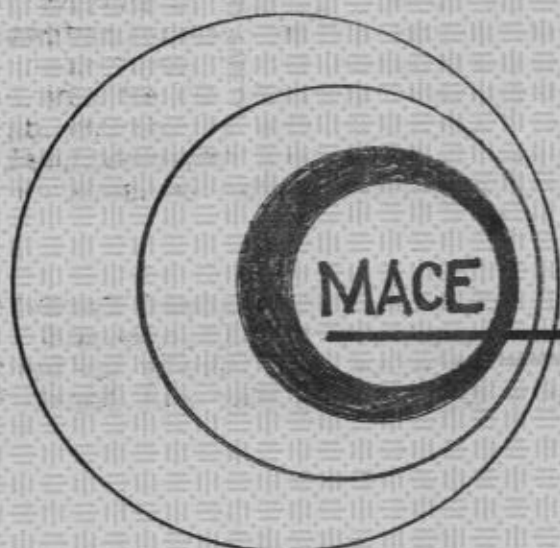
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